# INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JI	2004/015847
	ATION OF SUBJECT MATTER F25D17/06		
Int.CI	F25D17/06		
According to Inte	ernational Patent Classification (IPC) or to both nationa	l classification and IPC	
B. FIELDS SEA	RCHED		<del> </del>
Minimum docum	entation searched (classification system followed by classification system	assification symbols)	
Int.Cl7	F25D17/06		
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	earched other than minimum documentation to the exte		
		roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data be	ase consulted during the international search (name of	data base and, where practicable, search	terms used)
•			
<del> </del>			
C. DOCUMENT	S CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
х	WO 99/047871 A1 (Kabushiki K	Kaisha Kyoei	1-6,8-10
Y	Dennetsu),		7
	23 September, 1999 (23.09.99) All pages	1	
	(Family: none)		
ļ	· · · · · · · · · · · · · · · · · · ·		
Y	JP 8-200923 A (Kabushiki Kai	sha Kawasaki	7
	Seisakusho), 09 August, 1996 (09.08.96),		
	All pages		
	(Family: none)		
1			
`.			
1			
Further doc	uments are listed in the continuation of Box C.	See patent family annex.	
			101 1
operation on the	gories of cited documents: efining the general state of the art which is not considered	"T" later document published after the is date and not in conflict with the appl	ication but cited to understand
to be of particular relevance  "E" earlier application or patent but published on or after the international		the principle or theory underlying the "X" document of particular relevance: the	
filing date	ation of patent out published on of after the international	considered novel or cannot be con-	sidered to involve an inventive
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		step when the document is taken along document of particular relevance; the	
special reaso	n (as specified)	considered to involve an inventiv	e step when the document is
	ferring to an oral disclosure, use, exhibition or other means blished prior to the international filing date but later than the	combined with one or more other su- being obvious to a person skilled in	
priority date		"&" document member of the same pater	t family
Data afaba asa	1 lating afabricate matical accord	I Date of the interestinal of	and report
	l completion of the international search ember, 2004 (21.12.04)	Date of mailing of the international se 22 March, 2005 (2)	
1			•
Name and mailin	g address of the ISA/	Authorized officer	
Japanes	se Patent Office		
Fassimila No		Telephone No	

## PATENT COOPERATION TREATY

# PCT

## NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

### From the INTERNATIONAL BUREAU

To:

ISHIDO, Hisako Nos.317&318, Sanno Urban Life, 1-8 Sanno 2-chome, Ohta-ku, Tokyo 1430023 Japan

05 January 2005 (05.01.2005)	
Applicant's or agent's file reference ISHI03-02	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/015847	International filing date (day/month/year) 26 October 2004 (26.10.2004)
International publication date (day/month/year)  Not yet published	Priority date (day/month/year) 27 October 2003 (27.10.2003)

KYASCO CO., LTD et al

Date of mailing (day/month/year)

- 1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 3. (If applicable) An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date Priority application No. Country or regional Office of priority document

27 Octo 2003 (27.10.2003)

Priority application No. Country or regional Office of priority document

27 Octo 2003 (27.10.2003)

2003-365707

JP 23 Dece 2004 (23.12.2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

**Authorized officer** 

Patrick BLANCO (Fax 338 9090)

Telephone No. (41-22) 338 8702

#### PATENT COOPERATION TREATY

#### From the INTERNATIONAL BUREAU

# PCT

SECOND AND SUPPLEMENTARY NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION (TO DESIGNATED OFFICES WHICH APPLY THE 30 MONTH TIME LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

IKEUCHI SATO & PARTNER PATENT ATTORNEYS
26th Floor, OAP TOWER 8-30, Tenmabashi
1-chome, Kita-ku
Osaka-shi, Osaka 530-6026
JAPON

Date of mailing (day/month/year) 02 March 2006 (02.03.2006)			
Applicant's or agent's file reference ISHI03-02	H2404		IMPORTANT NOTICE
International application No. PCT/JP2004/015847		g date (day/month/year) r 2004 (26.10.2004)	Priority date (day/month/year) 27 October 2003 (27.10.2003)
Applicant	AIR OPERATION	TECHNOLOGIES INC. et	al

- 1. ATTENTION: For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), does not apply, please see Form PCT/IB/308(First Notice) issued previously.
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, does apply, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
   12 May 2005 (12.05.2005)

AU, AZ, BY, CN, CO, DZ, EP, HU, KG, KP, KR, MD, MK, MZ, NA, PG, RU, SY, TM, US

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, does apply, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BW, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PH, PL, PT, RO, SC, SD, SG, SK, SL, TJ, TN, TR, TT, UA, UZ, VC, VN, YU, ZA, ZW

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated or elected Office(s) listed above, the applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain of the designated or elected Office(s) listed above. For regular updates on the applicable time limits (30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

It is the applicant's sole responsibility to monitor all these time limits.

10 6, 3, 10 池内·江藤&P

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

# 特許協力条約

PCT

# 特許性に関する国際予備報告(特許協力条約第二章)

(法第 12 条、法施行規則第 56 条) [PCT36 条及びPCT規則 70]



出願人又は代理人 の書類記号 ISHI03-02 H 2404	今後の手続きについては、	様式PCT/I	PEA/416を参	照するこ	と。	
国際出願番号 PCT/JP2004/015847	国際出願日(日.月.年)26.10.	2004	優先日 (日.月.年) 27.	10. 2	2003	
国際特許分類(I P C) Int.Cl. <i>F25D17/08</i>	6(2006.01), F25D19/00(200	6.01), F25D25/0	02 (2006. 01)			
出願人 (氏名又は名称) エアオペレーションテクノロジーズ株式:	会社					
<ul> <li>✓ 補正されて、この報告の基金 囲及び/又は図面の用紙(ご 第1欄4.及び補充欄に示 国際予備審査機関が認定した</li> <li>b. □ 電子媒体は全部で</li> </ul>	規定に従い送付する。	ページか ・ 国際予備審査機関 明期第 607 号参照 5 国際出願の開示	36なる。 目が認めた訂正を含む (での範囲を超えた補正 (電子媒体の利	を含む ( 類、数:	らのとこの	
配列表に関する補充欄に示すように、電子形式による配列表又は配列表に関連するテーブルを含む。 (実施細則第 802 号参照)						
4. この国際予備審査報告は、次の内容を含む。  「第 I 欄 国際予備審査報告の基礎 第 I 欄 優先権 第 II 欄 優先権 第 II 欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成 第 IV 欄 発明の単一性の欠如 第 V 欄 P C T 35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを取付けるための文献及び説明 第 VI 欄 ある種の引用文献 第 VI 欄 国際出願の不備 第 II 知 国際出願に対する意見						
国際予備審査の請求書を受理した日	国際		<del></del> :成した日			
30. 05. 2005						
名称及びあて先	名称及びあて先 特許庁審査官(権限のある職員) 3L 8610					

長崎 洋一

電話番号 03-3581-1101 内線 3337

日本国特許庁 (IPEA/JP)

郵便番号100-8915

東京都千代田区霞が関三丁目4番3号

第	] 欄	報告の基礎	
1.	言語	iに関し、この予備審査報告は以下のものを基礎と	こした。
	y.	出願時の言語による国際出願	
		出願時の言語から次の目的のための言語である	語に翻訳された、この国際出願の翻訳文
		「」 国際調査 (PCT規則12.3(a)及び23.1(b))	
		国際公開 (PCT規則12.4(a))	
		□ 国際予備審査 (PCT規則55.2(a)又は55.3	3(a))
2.	この	報告は下記の出願書類を基礎とした。(法第69	k (PCT14条) の規定に基づく命令に応答するために提出され
		替え用紙は、この報告において「出願時」とし、	
	<u>.</u>	出願時の国際出願書類	
	V	明細書	
			出願時に提出されたもの
		第 ページ*	けけで国際予備審査機関が受理したもの
		第 ページ*	(、 付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの
	V	請求の範囲	
	13.4		出願時に提出されたもの
			・、PCT19条の規定に基づき補正されたもの
		第	
		第項*	<ul><li>、 付けで国際予備審査機関が受理したもの</li><li>、 付けで国際予備審査機関が受理したもの</li></ul>
	<b>V</b>	図面	
	F.Lui		出願時に提出されたもの
		第 ページ/図*	· 付けで国際予備審査機関が受理したもの
		第 ページ/図*	出願時に提出されたもの (、 付けで国際予備審査機関が受理したもの (、 付けで国際予備審査機関が受理したもの
	Г	配列表又は関連するテーブル	
	8i	配列表に関する補充欄を参照すること。	
3	П	補正により、下記の書類が削除された。	•
		<b>」</b> 明細書 第	ページ
		「 請求の範囲 第 <u></u>	
		□ 図面 第 <u> </u>	ページ/図
		□ 配列表(具体的に記載すること) □ 配列表に関連するテーブル(具体的に記載 <sup>-</sup>	+ z = L)
	i	[] 記列教に関連するノーブル(共体的に記載)	, acc
4.		この報告は、補充欄に示したように、この報告	に添付されかつ以下に示した補正が出願時における開示の範囲を超
		えてされたものと認められるので、その補正が	されなかったものとして作成した。 (PCT規則 70.2(c))
		<b>厂</b> 明細書 第	ページ
		「請求の範囲 第	項
		第	ページ 項 ページ/図
		一 配列表(具体的に記載すること)	
		「 配列表に関連するテーブル (具体的に記載す	すること)
* 4	. IC	該当する場合、その用紙に "superseded" と記え	<b>くされることがある。</b>

#### 特許性に関する国際予備報告

国際出願番号 PCT/JP2004/015847

それを <b>褒</b> 付ける文献及び . 見解	5.	
新規性(N)	請求の範囲 <u>1-12</u> 請求の範囲	
進歩性(IS)	請求の範囲 <u>1-12</u> 請求の範囲	
産業上の利用可能性(IA)	請求の範囲 <u>1-12</u> 請求の範囲	

### 2. 文献及び説明(PCT規則70.7)

文献1:WO 99/047871 A1 (株式会社共栄電熱) 1999.09.2

3,全頁 文献2:JP 8-200923 A (株式会社カワサキ製作所) 1996.08. 09,全頁

請求の範囲1-12に係る発明は、国際調査報告に引用されたいずれの文献にも記載されておらず、当業者にとって自明なものでもない。